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AUG 17 2003

TECH CENTER 1600/2800

1649

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/394,745

DATE: 08/08/2000
TIME: 15:50:35

Input Set : D:\In House Maize.rpt
Output Set: N:\CRF3\08082000\I394745.raw

P.S.

#3
JL/KW
8/17/03

2 <110> APPLICANT: Fisher, Dane K.
3 Lalgudi, Raghunath V.
6 <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
7 PLANTS
9 <130> FILE REFERENCE: 38-21(15454)B
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/394,745
C--> 11 <141> CURRENT FILING DATE: 1999-09-15
11 <160> NUMBER OF SEQ ID NOS: 57264
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 92
15 <212> TYPE: DNA
16 <213> ORGANISM: Zea mays
18 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C10
20 <400> SEQUENCE: 1
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24 ggcatccaaa actctgtcgg ttacggttcgc aa 92
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 121
29 <212> TYPE: DNA
30 <213> ORGANISM: Zea mays
32 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C11
34 <400> SEQUENCE: 2
36 ccacacgtcc gctcatccat cgttccacca ccagtctcgc acagatacag cctctatttc 60
38 tgattcgatg gatgtatgt taactcaaac atggtagcct ccaaggatag ctaaggatgc 120
40 a 121
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 406
45 <212> TYPE: DNA
46 <213> ORGANISM: Zea mays
48 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C2
50 <400> SEQUENCE: 3
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54 aagctcgggc atcatcctcg gttctgcgac caaatagatgc cccgtcggtt catgaagctg 120
56 atgtcatccc cagcgacaaat ggcgtgtca ggagcggcat gagtggtgac tacagcgca 180
58 caaaggaaatc aaacatcgag atgaaacttt ctccacttca gaactcatac ccccaaaggcc 240
60 ttgcaagcca ggatgaatat gataccggca caccacccgc aagcgtctca agcagtccgg 300
62 tctacatcca caagctgtcc tctcacttca agttcgtgc agcgcctcgc cctgcgcctc 360
64 ctgaaagatt tttgcacgtt atggtaacggc cacccttcc taccac 406
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 377
69 <212> TYPE: DNA
70 <213> ORGANISM: Zea mays
72 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C3
74 <400> SEQUENCE: 4
76 cgcctccatg taccgggtcca ggaattccccg agtcgacccca cgcctccgtt ttgcccagact 60
78 gaaaagaaaa agagcagaca tgaattttt cggccgttag ctgcgggtgg aggggtttt 120
80 agaaccataa gaggcctaag tgccaaattc ctgaggccaaatc tctgtatgac attgcaaatc 180

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82 aagcagatga tctagtagag tcaatggaa cttagggacac cattcctgtat cgaaaacttc 240
84 ttgcagaatg agttatagta agagaagaag ctcggaaatat gatggggagggt ggcctgttag 300
86 atgagagaaa tgatcggtgg ttgacttaacc tccctggaggc agaggtaaac ttttgagca 360
88 agctcggtgc tcttaaa 377
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 249
93 <212> TYPE: DNA
94 <213> ORGANISM: Zea mays
95 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C4
96 <400> SEQUENCE: 5
98 100 cgcctgcatt taccggtcca gaattcccgaa gtcgacccac gcctccgatc gggaggtacag 60
102 taacgattat tgagtggatc tgatgttgcgat ctgggtgcag cctctgcag tataagtgtt 120
104 ctacgtgtta tacattttt tatgtccatg aaacattgtat ccactgtggaa aatataatctt 180
106 cagggtccaa tctacgacaa aaaaggaaag aaaaaaaagag aaaaaaaaga gcaaaaggaa 240
108 agaaaggag 249
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 257
113 <212> TYPE: DNA
114 <213> ORGANISM: Zea mays
115 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C5
116 <400> SEQUENCE: 6
118 120 cacacgcgtcc atctgacat tgctgggacg acggcgaaac tcatcggtcg cagaccccaa 60
122 cgctccgcgtg tactacaaag gatgttatca cctgttctac cagataacc ccaaggccc 120
124 cgatattggc cacatcttt tggcccaatc cgtttccccca caacttatta aattgggtgc 180
126 ccctgtaccc ggcataac ccaacatccc gttcgacaag ttccgcggcc ggtccggctc 240
128 tcggAACATT tcttaag 257
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 401
133 <212> TYPE: DNA
134 <213> ORGANISM: Zea mays
135 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C6
136 <400> SEQUENCE: 7
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142 ctcacgacca cgacccgttc cacggccctcg aocccgaaacc ccaatcccg gacgcgaccg 120
144 ctgaacctta gcataactccg gccatctgtc ggccggccccc gcgatcccccc gccatggct 180
146 ccccccgggg cacaacgtgg gtcttcgact gttcccttat ggacgaccc tcgggtcgccg 240
148 ccgacttcgcg ggcggcccccc gggggaggat ttttctgggc agcggcccg tcgctgcagc 300
150 cgcaggccgccc agtgcgtttt gtcgtgcgcg cgtcggtccca accccatgt atggaaatca 360
152 gtagcttgtt ggactgtggt caggaaaaag aacagccaaac 401
154 <210> SEQ ID NO: 8
156 <211> LENGTH: 402
157 <212> TYPE: DNA
158 <213> ORGANISM: Zea mays
159 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C7
160 <400> SEQUENCE: 8
162 164 taccgggtcg gaattcccg gcccacccac gggtcaggta gctgttagact gtagttctgt 60
166 tcctcccccac tcactcttcgc gcttcttcgc cggcggttc cttctccctt atcctccctt 120
168 ggcttcgcgg ttcatggcga tggggagggc cggcgctagg cagctgtcg accggggcgct 180
170 cggctcaagg gcccgcaca cgctctacagg cagcaaaaag atagtcgggg tggcttacaa 240

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140 172 ggccggggag tatgccgaca agaacccaa cttcgtcgcc tgcgtcgagg gtgcactcg 300
174 catccggcc tggctcgagt cgcaaggcca tcagtagatt gtcaccatg acaaggaagg 360
176 ccccaactgt gaactggaga agcacattta agacatgcat gt 402
179 <210> SEQ ID NO: 9
180 <211> LENGTH: 369
181 <212> TYPE: DNA
182 <213> ORGANISM: Zea mays
184 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-C9
186 <400> SEQUENCE: 9
188 aggttaacggt ctagaattcc cggggccgacc cacgcgtcag ctatgttctag atcgcgatct 60
190 agaactaagc ccacgcgtcc gcccacgcgt ccgaacttat gtgaccaata agatcaagct 120
192 ccagctcaac cgaagggtta gctcgagccca tggcttaatg caccacaatg gcccggcga 180
194 cggcgatcgc gcttgttctt ctaccgcgtcg gccggccgca ggagatgccc accgcagcgc 240
196 accccgacgg gctctccctcc gagagccgc tgcgtctgtc gccggctgtc tacgacttct 300
198 tccaccccgag agcgcgcgc cgcgcgcgc acggcgatcgc gccgggtgcgc ggcgtcgct 360
200 ctcacggac 369
203 <210> SEQ ID NO: 10
204 <211> LENGTH: 414
205 <212> TYPE: DNA
206 <213> ORGANISM: Zea mays
208 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-D10
210 <400> SEQUENCE: 10
212 ccacgcgtca gctttcagaa ggactagca cgaaaaacc ccacgagaga gacgaatctt 60
214 ccgaatcttc cggtgccat ggcgtctcc gacccgtccc gcgcgtcgt cctccggc 120
216 ttcccttacg cctctccgc ggcgtcttc gctgccacag gacccggccgc gcgcctccct 180
218 gtctccccc cagcgcgtc caccggcttgc gcaaggagggc gcgtgcgtt ctcgcattcag 240
220 gcgcccaagg agaagatgcg gatgtactcg cccgccttc atgcgcctg cactggcgg 300
222 ggaatcgcgc gctggggct caccacatc cgcgtcacgc ctctcgaccc cgtcaagtgc 360
224 aatatgcggaa atgacccaa gaaattccag gattatctca tcgggatttg gtat 414
227 <210> SEQ ID NO: 11
228 <211> LENGTH: 425
229 <212> TYPE: DNA
230 <213> ORGANISM: Zea mays
232 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-D11
234 <400> SEQUENCE: 11
236 ccacgcgtcc gcgacgaggc cggggaggaa gacgacgaaag gcgaggatga gcggtgcgc 60
238 ggtacccaa gggcgctgc accgacgtca tccacgaccc cggccgtggc gcgcgcgtcg 120
240 ccaagggtac ttcccccac ccattcggat acaagcacca gaaggagctc tttgtcgccag 180
242 cggagggtat gtacacgggc cagttcgatc actgcggatcg cccgcgcacc ctctccatcg 240
244 gcaacgtgct gccccctccgc gggatccctg aggggtgcgt cgtctgcAAC gtcgagcacc 300
246 acgtcggtga ccgcgggtgtc ttccgcggg cctctggggc ctacgcattt gtgattaagc 360
248 aaaagccttg gacacgggac atcgaggatt aagctgcctt ctggcgccaa gaagattgtc 420
250 cccag 425
253 <210> SEQ ID NO: 12
254 <211> LENGTH: 352
255 <212> TYPE: DNA
256 <213> ORGANISM: Zea mays
258 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-D12
260 <400> SEQUENCE: 12

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352 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-D7
354 <400> SEQUENCE: 16
356 ccaacgcgtc gggaaagctc cgacaagagtc ctggggagggt gcctactctt aatgattggg 60
358 aaacccatct aacaacaatt ttccctgagg ttaggttaaa gagataccctt gagatgagag 120
360 gtgcgtatgg tggcccatgg aggagattgt gtgcgcgtcc tgcatgggg gttgggctgc 180
362 tgtacatgta ggaatcatta caaaagcattt tagacatgac ttttgactgg acacaggagg 240
364 aaagagatg gctaagacat aagaatccgt tgactgtct gaagacacca ttccgcgtatg 300
366 gatattttatg agatgttag gaggaaatgc taaaactggc caagaatggta ttggaaagaa 360
368 gaggatacaa ggagggtccgt ttc 383
371 <210> SEQ ID NO: 17
372 <211> LENGTH: 240
373 <212> TYPE: DNA
374 <213> ORGANISM: Zea mays
376 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-D8
378 <400> SEQUENCE: 17
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382 ttgttcatgt ttcttttacc cactttccgt tacaaaaaga tgcatttttttggatggagaaa 120
384 aacaatatacg actgtttctcg agagaacccga agaatttatgg aatttggatgt tatggcttaa 180
386 aaaaaaaaaaagag attagaatgc gcagcatgca attaaaaggg cggccgcgtt agaggatcgaa 240
389 <210> SEQ ID NO: 18
390 <211> LENGTH: 423
391 <212> TYPE: DNA
392 <213> ORGANISM: Zea mays
394 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-D9
396 <400> SEQUENCE: 18
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400 ctactatccca tcgccaaaac cctagccccgg atccggctcgaa ggagcactac ttcttgcatt 120
402 ggcgggcacc cctagccagg caagcctctt gctccagaag cagctcaagg atcttgcgaa 180
404 gaacccctgtg gatgggtttct cccgacgggtt tgtagacatg agcaacgtct tcgatggca 240
406 ggtccaccatc atccggccgc cgcacccctt atatgtggaa ggctacttca atgcataat 300
408 gacccctccc cagaacatctt ccaacagcccccc gccatcgatgaa agattttactt ctggatgtg 360
410 gcaatcgaaat ggttacccggg atggggcttgtt ttgcatttttccatc cacctggtgaa 420
412 aga 423
415 <210> SEQ ID NO: 19
416 <211> LENGTH: 396
417 <212> TYPE: DNA
418 <213> ORGANISM: Zea mays
420 <223> OTHER INFORMATION: Clone ID: LIB143-001-Q1-E1-E1
422 <400> SEQUENCE: 19
424 acgcctgcattt gtaccgggtcc agaaatcccg agtcgaccacca cgcgtccggcc gggaaagctgc 60
426 cctggccactg ccaggctgc acaccggatgt gtccttgcata ctccctctcc ttccttcttc 120
428 tcgcgcacgtt ggtctgtggcc cgtacggccgc ggccgtccggc ctcaccagac cggccggccgc 180
430 cacgtctgtt tccgcgcctc cccgcctctt caccgtccgc ccccttttac ttccgtatgc 240
432 attttttatattt aatagtgggg cggagagaact catcataaggc acttcgcatttca aggttcatgtt 300
434 acctcgggggaa attccaaacaa caaaaagcat gataagccgc agccaaatttataccagac 360
436 aattttatagct ccgtcgatgtt ggttactact gctctg 396
439 <210> SEQ ID NO: 20
440 <211> LENGTH: 312
441 <212> TYPE: DNA

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
 L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:545 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:24
 L:545 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24
 L:545 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
 L:545 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:24
 L:1452 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:65
 L:1452 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:65
 L:1452 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:65
 L:1452 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:65
 L:1464 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:65
 L:1464 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:65
 L:1464 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:65
 M:340 Repeated in SeqNo=65
 L:1489 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:66
 L:1489 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:66
 L:1489 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66
 L:1489 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:66
 L:1506 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:67
 L:1506 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:67
 L:1506 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:67
 L:1506 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:67
 L:1508 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:67
 L:1508 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:67
 L:1508 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:67
 M:340 Repeated in SeqNo=67
 L:1512 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:67
 L:1512 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:67
 L:1512 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:67
 L:1659 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:73
 L:1659 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:73
 L:1659 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:73
 L:1659 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:73
 L:1884 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:83
 L:1884 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:83
 L:1884 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:83
 L:1884 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:83
 L:1905 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:84
 L:1905 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:84
 L:1905 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:84
 L:1905 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:84
 L:1915 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:84
 L:1915 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:84
 L:1915 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:84
 M:340 Repeated in SeqNo=84
 L:2096 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:92
 L:2096 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:92
 L:2096 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:92

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L:2096 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:92
 L:2135 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:93
 L:2135 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:93
 L:2135 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:93
 L:2135 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:93
 L:2162 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:94
 L:2162 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:94
 L:2162 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:94
 L:2162 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:94
 L:2189 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:96
 L:2189 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:96
 L:2189 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:96
 L:2189 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:96
 L:2368 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:104
 L:2368 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:104
 L:2368 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:104
 L:2368 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:114
 L:2593 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:114
 L:2593 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:114
 L:2593 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:114
 L:2860 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:126
 L:3049 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135
 L:3224 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:143
 L:3455 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:154
 L:3490 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:156
 M:340 Repeated in SeqNo=156
 L:3557 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:159
 L:3764 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:168
 L:3975 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:177
 L:4162 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:186
 L:4239 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:189
 L:4702 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:208
 L:4767 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:211
 L:5654 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:250
 L:6301 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:280
 L:6868 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:305
 L:7309 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:325
 L:7340 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:327
 L:7887 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:351
 L:7962 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:354
 L:8289 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:367
 L:8490 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:375
 L:8575 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:379
 L:9324 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:413
 L:9953 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:439
 L:10056 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:443
 M:340 Repeated in SeqNo=443
 L:10223 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:450
 L:10362 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:456

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L:10489 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:461
L:10656 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:468
M:340 Repeated in SeqNo=468
L:10677 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:469
L:10694 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:470